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| 09/677,742      | 10/03/2000  | Kraig A. Quinn       | D/A0711             | 5247             |

7590

08/11/2003

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EXAMINER

LUU, THANH X

ART UNIT

PAPER NUMBER

2878

DATE MAILED: 08/11/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/677,742

Applicant(s)

QUINN, KRAIG 

Examiner

Thanh X Luu

Art Unit

2878

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 17-19 is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☒ Claim(s) 9-16 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

## **DETAILED ACTION**

### ***Specification***

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

### ***Claim Objections***

2. Claims 9, 11 and 14-16 are objected to because of the following informalities:

In claim 11, Applicant uses the terms "second glass tie bar" and "second tie bar" to refer to the same tie bar. Examiner recommends using consistent terminology.

In claim 14, "the tie bar" lacks proper antecedent basis because it is unclear which tie bar is being referred to. Examiner recommends using --the glass tie bars--.

In claim 16, "the glass tie bar" lacks proper antecedent basis for similar reasons.

In claims 9, 14-16, Applicant uses the terms "glass tie bar", "tie bar" and "glass" to refer to the same element. Examiner recommends using consistent terminology.

Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Kaneko (U.S. Patent 5,063,286).

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Regarding claims 1-8, Kaneko discloses (see Figure 3) an imaging apparatus, comprising: a first substrate (chip 13a); a second substrate (chip 13b); a first imaging device (CCD) mounted on the first substrate; a second imaging device (CCD) mounted on the second substrate; and a glass tie bar (17) having a first portion attached to the first substrate, and having a second portion attached to the second substrate. Kaneko also discloses (see Figure 3 and column 10, lines 33-36) the first and second portions are attached by an adhesive (18) cured by a mechanism other than heat, a light-curable adhesive or an ultraviolet-light curable adhesive. Kaneko further discloses (see column 11, line 35) the tie bar has a coefficient of thermal expansion substantially similar ( $\pm 1 \times 10^{-6}$ ) to the coefficient of thermal expansion of the first and second imaging devices. Kaneko also discloses (see column 11, line 1) the coefficient of thermal expansion of the glass is approximately 3.25 parts per million per degree Celsius and (see Figure 1) the first and second imaging devices extend beyond one edge, respectively, and are arranged proximate one another.

***Allowable Subject Matter***

5. Claims 9-16 would be allowed over the prior art of record once the objections are overcome. Claims 17-19 are allowed over the prior art of record.
6. The following is a statement of reasons for the indication of allowable subject matter: an apparatus and method as claimed, more specifically in combination with a plurality of imaging chips mounted on a first and second wiring board and wherein a portion of the first end chip projects beyond the joining end, is not disclosed or made obvious by the prior art of record.


***Conclusion***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh X. Luu whose telephone number is (703) 305-0539. The examiner can normally be reached on Monday-Friday from 6:30 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Porta, can be reached on (703) 308-4852. The fax phone number for the organization where the application or proceeding is assigned is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

txl  
August 6, 2003



Thanh X. Luu  
Patent Examiner